



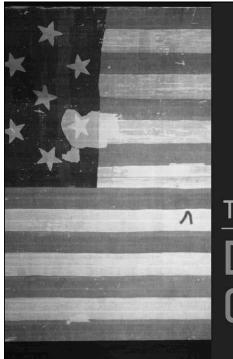
ON TODAY'S AGENDA

- What are textiles?
- ▶ Mechanisms of deterioration
- ▶ Storage
- ▶ Handling
- ▶ Exhibit
- ▶ Cleaning
- ▶ Resources



THREE CATEGORIES OF TEXTILES

- Animal fibers
 - ▶ Wool and silk
- Natural fibers
 - ▶ Cotton and linen
- ▶ Manmade fiers
 - ▶ Completely manmade (polyester)
 - ▶ Regenerated (rayon)
- ▶ Textile collections may also contain non-textiles



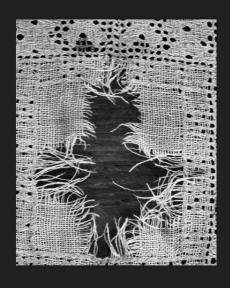
THINGS FALL APART
DETERIORATION
OF TEXTILES

MECHANISMS OF DETERIORATION

- ▶ Oxidation
- Hydrolysis
- ▶ Cross-linking

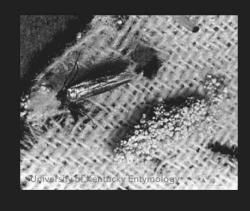
PHYSICAL FORCES

- Textiles are easily damaged by stress
 - Tears
 - Repeated folding
 - Wear
 - Gravity



INSECT DAMAGE

- Carpet beetles
- ▶ Hide beetles
- Clothes moths



LIGHT DAMAGE

- Textiles are particularly vulnerable to fading.
- Light can also catalyze oxidation and hydrolysis of materials.
- Ultraviolet light is the most damaging to museum collections.



TEMPERATURE AND RELATIVE HUMIDITY

- ▶ High temperature accelerates chemical reactions.
- ▶ High relative humidity promotes mold growth and insect infestation.
- ▶ Low relative humidity causes loss of flexibility and desiccation.
- ▶ Fluctuations stress delicate textiles.
- ▶ Storage at a cool temperature (68-70) and 50-60% rH is recommended.



BOXES AND ROLLS AND HANGERS, OH MY

STORAGE OF Textiles

FLAT STORAGE

- Best for small textiles, and extremely fragile textiles like crazy quilts.
- Use storage boxes or drawers.
- Stack sturdy textiles between sheets of unbuffered tissue.
- Avoid stacking fragile textiles.
- Store fragile textiles with a support like a sheet of archival board covered with muslin.
- Minimize folds. Pad folds with acid-free tissue.
- Extremely fragile textiles and fragments may require a mat for safe storage.



ROLLED STORAGE

- Best for quilts, rugs, blankets and tablecloths and flags
- Roll around the exterior of an appropriately sized acid-free tube.
- ▶ Roll acid-free unbuffered tissue around the tube to create a leader.
- Interleave with tissue as you roll
- Use two people to roll large objects to maintain tension.
- Wrap in muslin to protect from dust.
- Roll quilts with top side facing out.



Spurlock Museum

COSTUMES

- ▶ Hanging storage
 - Best for fitted, constructed garments in good condition.
 - ▶ Do not use for fragile garments, heavy garments, or bias cut dresses.
 - Use padded hangers and dust covers.



Maryland Historical Society

COSTUMES

- Boxed storage
 - Best for unconstructed garments (kimonos), heavy and fragile garments and men's pants.
 - Use as few folds as possible.
 - Pad folds with tissue to minimize stress.
 - Use a muslin sling in the box to help remove garments safely.



Museum of Applied Arts and Sciences



HANDLING TEXTILES

WEAR GLOVES WHEN HANDLING TEXTILES.

Nitrile is preferable to cotton.

RULES FOR HANDLING TEXTILES

- ▶ Never handle artifacts unless absolutely necessary.
- ▶ Move fragile textiles on a support.
- ▶ Know where you are going to put an object down before you pick it up.
- ▶ Remove jewelry, badges, belt buckles, etc. that could snag on delicate textiles and cause tears.
- ▶ Use two people to carry textiles when necessary.

ALWAYS TRANSPORT TEXTILES ON A SUPPORT

- ▶ Because textiles are not rigid they must be transported on a support.
- ▶ Roll flat objects around a tube for transport.
- Garments may be transported in boxes with tissue padding the folds.
- ▶ Heavy textiles with surface decorations may be fan folded into a box.
- ▶ Small textiles may be transported flat on a muslin-covered board.



EXHIBIT

TEXTILES SHOULD NEVER BE ON PERMANENT DISPLAY.

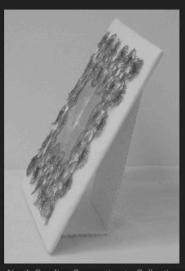
Rotate fragile textiles after 3 months. Sturdy textiles may be displayed for 6-9 months.

CASES

- ▶ Textiles in museums should be exhibited in cases to create a microclimate.
- ▶ In house museums keep use ropes and chair cords to protect textiles from patrons.

EXHIBIT OF SMALL TEXTILES

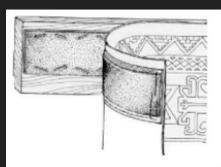
- Exhibit flat in case.
 - Lay on a padded board.
 - Textiles may be exhibited on a 15 degree angle
- Small textiles may also be exhibited framed.
 - Consult a conservator to determine the most appropriate framing method.



North Carolina Connecting to Collections

EXHIBIT OF LARGE FLAT TEXTILES

- Supports should distribute the weight of the textile.
- Appropriate supports include
 - ▶ Hook and loop tape
 - Archival tubes
 - Large slant boards
 - Frames (quite common for flags)



National Park Service Museum Handbook

EXHIBIT OF COSTUMES

- Sturdy costumes may be displayed on a mannequin
 - ▶ Ensure the mannequin supports the garment completely.
 - Do not put bias cut garments on mannequins for extended display.
- Fragile costumes may be displayed flat or on a slant board
- Unconstructed costumes may be displayed draped over an archival tube



New York Times

TEXT

ANY CLEANING OR CONSERVATION OF TEXTILES SHOULD BE PERFORMED BY A CONSERVATOR.

http://www.conservation-us.org/membership/find-a-conservator

RESOURCES

- ▶ THC Museum Services Resources
 - ▶ NPS Museum Handbook
 - ▶ NPS Conserve-o-Grams
 - Canadian Conservation Institute
 - ▶ Smithsonian Conservation Institute

